

Rabbit anti-Rat Gap-43 (Ser41) Polyclonal Antibody | anti-GAP43 antibody

Anti-Phospho-Ser41 Gap-43

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72792	Rabbit	Rat	Dot Blot, Western Blot, Immunohistochemistry

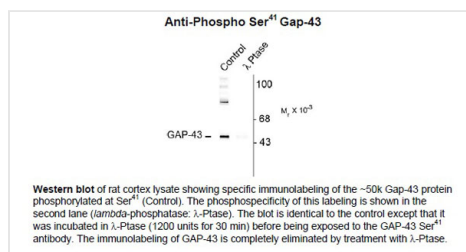
PRODUCT SYNONYMS

Gap-43 (Ser41); Polyclonal Antibody; Anti-Phospho-Ser41 Gap-43; anti-GAP43 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Specificity	Specific for the ~50k Gap-43 phosphorylated at Ser ⁴¹ in Western blots of rat brain lysate. In some tissues the antibody also recognized a higher molecular weight band that is also recognized by the pan Gap-43 antibody and this band may be a Gap-43 aggregate or oligomer. Immunolabeling of the Gap-43 protein is blocked by the Ser ⁴¹ phosphopeptide used as antigen but not by the corresponding non-phosphopeptide. Human, mouse and rat have 100% amino acid sequence identity with for the antigen used to raise the antibody.
Purity/Purification	Affinity Purified (Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.)
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug BSA per ml and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.
Sequence Length	226
Applicable Applications for anti-GAP43 antibody	DB (Dot Blot), WB (Western Blot), IHC (Immunohistochemistry)
Quality Control Tests	Western blots performed on each lot.
Preparation and Storage	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20°C.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-GAP43 antibody	Affinity purified rabbit polyclonal antibody
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References	• Benowitz LI, Routtenberg A (1997) Gap-43: An intrinsic determinant of neuronal development and plasticity. Trends Neurosci 20:84-91. • He, Q, Dent, EW, Meiri, KF (1997) Modulation of actin filament behavior by Gap-43 (neuromodulin) is dependent on the phosphorylation status of serine 41, the protein kinase C site. J Neurosci 17:3515-3524. • Hulo S, Alberi, S, Laux T, Muller D, Caroni P (2002) A point mutant of Gap-43 induces enhanced short-term and long-term hippocampal plasticity. Eur J Neurosci 15:1976-1982. • Strittmatter SM, Fankhauser C, Huang PL, Mashimo H, Fishman MC (1995) Neuronal path finding is abnormal in mice lacking the neuronal growth cone protein Gap-43," Cell 80:445-452. • Rayudu Gopalakrishna, Usha Gundimeda, Jason Eric Schiffman, and Thomas H. McNeill (2008) A Direct Redox Regulation of Protein Kinase C Isoenzymes Mediates Oxidant-induced Neuritogenesis in PC12 Cells J. Biol. Chem., May 2008; 283: 14430 - 14444.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8393415
NCBI GeneID	29423
NCBI Accession #	NP_058891.1
NCBI GenBank Nucleotide #	NM_017195.3
UniProt Accession #	P07936; A0JPM4
NCBI Official Full Name	neuromodulin
NCBI Official Synonym Full Names	growth associated protein 43
NCBI Official Symbol	Gap43
NCBI Official Synonym Symbols	Basp2
NCBI Protein Information	neuromodulin; protein F1; growth-associated protein 43; axonal membrane protein GAP-43; growth accentuating protein 43; brain abundant, membrane attached signal protein 2
UniProt Protein Name	Neuromodulin
UniProt Gene Name	Gap43
UniProt Entry Name	NEUM_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gap-43-ser41-antibody-dot-blot-western-blot-immunohistochemistry-elisa/72792>